In the Claims

Please cancel claims 1-9 and 13 without prejudice or disclaimer.

Please add the following new claims.

- 22. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding an amino acid sequence identical to, except for up to five amino acid alterations per 100 amino acids, the amino acid sequence of SEQ ID NO:66.
- 23. (New) An isolated polynucleotide comprising the full complement of the nucleic acid sequence of claim 22.
- 24. (New) The isolated polynucleotide of claim 22 which encodes the amino acid sequence of SEQ ID NO:66.
- 25. (New) The isolated polynucleotide of claim 22 which further comprises a heterologous polynucleotide sequence.
- 26. (New) The isolated polynucleotide of claim 25, wherein said heterologous polynucleotide sequence encodes a polypeptide.
- 27. (New) A method of making a recombinant vector comprising inserting the isolated polynucleotide of claim 22 into a vector.
- 28. (New) A recombinant vector comprising the isolated polynucleotide of claim 22.
- 29. (New) The recombinant vector of claim 28, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 30. (New) A recombinant host cell comprising the isolated polynucleotide of claim 22.

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- 31. (New) The recombinant host cell of claim 30, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 32. (New) A method for producing a polypeptide, comprising:
- (a) culturing a recombinant host cell comprising the isolated polynucleotide of claim 22 under conditions suitable to produce a polypeptide encoded by said polynucleotide; and
 - (b) recovering the polypeptide.
 - 33. (New) A polypeptide produced by the method of claim 32.
- 34. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding an epitope-bearing portion of the amino acid sequence of SEQ ID NO:66.
- 35. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding a portion of the amino acid sequence of SEQ ID NO:66 which specifically binds an antibody that specifically binds to a polypeptide consisting of the amino acid sequence of SEQ ID NO:66, wherein said portion comprises an amino acid sequence selected from the group consisting of:
 - (a) Gly-11 to Arg-19;
 - (b) Ile-23 to Lys-31;
 - (c) His-145 to Asn-151;
 - (d) Gln-159 to Asp-166;
 - (e) Ile-175 to Asp-181;
 - (f) Gly-213 to Tyr-225;
 - (g) Ile-283 to Val-291;
 - (h) Pro-329 to Glu-364;
 - (i) Arg-372 to Ser-386;
 - (j) Thr-421 to Phe-430;
 - (k) Leu-445 to Val-453;



- (m) Asp-524 to Ala-535.
- 36. (New) The isolated polynucleotide of claim 35, wherein said amino acid sequence comprises (a) and (b).
- 37. (New) The isolated polynucleotide of claim 35, wherein said amino acid sequence comprises (l) and (m).
- 38. (New) The isolated polynucleotide of claim 35, wherein said amino acid sequence is (h).
- 39. (New) The isolated polynucleotide of claim 35, wherein said amino acid sequence is (i).
- 40. (New) The isolated polynucleotide of claim 35 which comprises a heterologous polynucleotide sequence.
- 41. (New) The isolated polynucleotide of claim 41, wherein said heterologous polynucleotide sequence encodes a polypeptide.
- 42. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 35 into a vector.
- 43. (New) A recombinant vector comprising the isolated polynucleotide of claim 35.
- 44. (New) The recombinant vector of claim 43, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 45. (New) A recombinant host cell comprising the isolated polynucleotide of claim 35.

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- 46. (New) The recombinant host cell of claim 45, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 47. (New) A method for producing a polypeptide, comprising:
- (a) culturing a recombinant cell comprising the isolated polynucleotide of claim 35 under conditions suitable to produce a polypeptide encoded by said polynucleotide; and
 - (b) recovering the polypeptide.

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48. (New) A polypeptide produced by the method of claim 47.

- 49. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding at least 9 contiguous amino acid residues of SEQ ID NO:66.
- 50. (New) The isolated polynucleotide of claim 49 comprising a nucleic acid sequence encoding at least 30 contiguous amino acid residues of SEQ ID NO:66.
- 51. (New) The isolated polynucleotide of claim, 50 comprising a nucleic acid sequence encoding at least 50 contiguous amino acid residues of SEQ ID NO:66.
- 52. (New) The isolated polynucleotide of claim 50 comprising a nucleic acid sequence encoding at least 100 contiguous amino acid residues of SEQ ID NO:66.
- 53. (New) The isolated polynucleotide of claim 50, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
- 54. (New) The isolated polynucleotide of claim 50, wherein said heterologous polynucleotide sequence encodes a polypeptide.

- 55. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 50 into a vector.
- 56. (New) A recombinant vector comprising the isolated polynucleotide of claim 50.
- 57. (New) The recombinant vector of claim 50, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 58. (New) A recombinant host cell comprising the isolated polynucleotide of claim 50.
- 59. (New) The recombinant host cell of claim 58, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 60. (New) A method for producing a polypeptide, comprising:
- (a) culturing a recombinant cell comprising the isolated polynucleotide of claim 50 under conditions suitable to produce a polypeptide encoded by said polynucleotide; and
 - (b) recovering the polypeptide.

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- 61. (New) A polypeptide produced by the method of claim 60.
- 62. (New) An isolated polynucleotide comprising a nucleic acid sequence which hybridizes at 42°C in 5X SSC and 50% formamide, to a nucleic acid sequence selected from the group consisting of:
 - (a) SEQ ID NO:65; and
 - (b) the full complement of (a).



- 63. (New) The isolated polynucleotide of claim 62, wherein said nucleic acid sequence is (a).
- 64. (New) The isolated polynucleotide of claim 62, wherein said nucleic acid sequence is (b).
- 65. (New) The isolated polynucleotide of claim 62, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
- 66. (New) The isolated polynucleotide of claim 65, wherein said heterologous polynucleotide sequence encodes a polypeptide.
- 67. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 62 into a vector.
- 68. (New) A recombinant vector comprising the isolated polynucleotide of claim 62.
- 69. (New) The recombinant vector of claim 68, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 70. (New) A recombinant host cell comprising the isolated polynucleotide of claim 62.
- 71. (New) The recombinant host cell of claim 70, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 72. (New) A method for producing a polypeptide, comprising:
- (a) culturing a recombinant cell comprising the isolated polynucleotide of claim 62 under conditions suitable to produce a polypeptide encoded by said polynucleotide; and



(b) recovering the polypeptide.

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- 73. (New) A polypeptide produced by the method of claim 72.
- 74. (New) An isolated polynucleotide comprising a nucleic acid molecule selected from the group consisting of
 - (a) SEQ ID NO:65; and
 - (b) the full complement of (a).
- 75. (New) The isolated polynucleotide of claim 74 which comprises a heterologous polynucleotide sequence.
- 76. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 74 into a vector.
- 77. (New) A recombinant vector comprising the isolated polynucleotide of claim 74.
- 78. (New) A recombinant host cell comprising the isolated polynucleotide of claim 74.
- 79. (New) An isolated polynucleotide comprising a nucleic acid sequence identical to, except for up to five nucleotide alterations per 100, selected from the group consisting of:
 - (a) SEQ ID NO:65; and
 - (b) the full complement of (a).
- 80. (New) The isolated polynucleotide of claim 79, wherein said nucleic acid sequence is (a).
- 81. (New) The isolated polynucleotide of claim 79, wherein said nucleic acid sequence is (b).



- 82. (New) The isolated polynucleotide of claim 79, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
- 83. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 79 into a vector.
- 84. (New) A recombinant vector comprising the isolated polynucleotide of claim 79.
- 85. (New) A recombinant host cell comprising the isolated polynucleotide of claim 79.
- 86. (New) An isolated polynucleotide consisting of at least 100 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of:
 - (a) SEQ ID NO:65; and
 - (b) the full complement of (a)
- 87. (New) The isolated polynucleotide of claim 86, wherein said nucleic acid sequence is (a).
- 88. (New) The isolated polynucleotide of claim 86, wherein said nucleic acid sequence is (b).
- 89. (New) The isolated polynucleotide of claim 86, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
- 90. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 86 into a vector.
- 91. (New) A recombinant vector comprising the isolated polynucleotide of claim 86.

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